

List of All Chemicals

P Acacia leucophloea (Fabaceae)

Common name(s)

Pilang Bast

How used

GRAS

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
TANNIN	Plant	--	--		*

Activities (35)

AntheImintic					
AntiHIV					
Antibacterial					
Anticancer					
Anticariogenic					
Antidiarrheic					
Antidysenteric					
Antihepatotoxic					
Antihypertensive					
Antilipolytic					
Antimutagenic					
Antinephritic	Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990.				
Antiophidic	Economic & Medicinal Plant Research, 5: 363.				
Antioxidant IC50=1.44 ug/ml					
Antioxidant 1/3 quercetin					
Antiradicular 500 mg/kg/day orl msu	Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990.				
Antiradicular 1/3 quercetin					
Antirenitic	Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990.				
Antitumor					
Antitumor-Promoter					
Antiulcer					
Antiviral					
Cancer-Preventive	HerbalGram No. 22 - Spring 1990, page 14.				
Carcinogenic					
Chelator					
Cyclooxygenase- Inhibitor					
Glucosyl- Transferase-Inhibitor					
Hepatoprotective					
Immunosuppressant					
Lipoxygenase- Inhibitor					
MAO-Inhibitor					
Ornithine- Decarboxylase- Inhibitor					
Pesticide					
Psychotropic	Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990.				
Xanthine-Oxidase- Inhibitor					

N-OCTACOSANOL	Plant	--	--		*
MYRICETIN	Plant	--	--		*

Activities (34)

Allelochemic IC82=1 mM	Lvdon. I. & Duke. S.. The potential of pesticides from plants. pp. 1-41 in Craker. L. & Simon. I. eds. Herbs. Spices & Medicinal Plants: Recent				
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AntiHIV	
Antiallergenic	
Antibacterial MIC=20-500 ug/ml	
Antifeedant IC52=<1,000 ppm diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Antigastric	
Antigingivitic MIC=20 ug/ml	
Antigonadotrophic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antihistaminic	
Antiinflammatory	Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
Antimutagenic ID50=2-5 nM	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antioxidant IC99=200 ppm	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antioxidant 1.4 uM	
Antioxidant IC50=3.9 ug/ml	
Antiperiodontic MIC=20 ug/ml	
Antiplatelet MIC=20 ug/ml	
Antiseptic MIC=20 ug/ml	
Antiviral	
Apoptotic 60 uM	
COMP-Inhibitor	Dullo, A. G., et al. 1999. Efficacy of a green tea extract rich in catechin polyphenols and caffeine in increasing 24-h energy expenditure and fat oxidation in humans. Am. J. Clinical Nutrition, 70: 1040-1045.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide MIC=150 ug/ml	Planta Medica, 57: A43, 1991.
Diuretic	Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
Hypoglycemic	Economic & Medicinal Plant Research, 6: 170.
Larvostat IC50=2.6-3.5 mM/kg diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Lipoxygenase-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Mutagenic	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Oxidase-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Pesticide	
Quinone-Reductase-Inducer 36 uM	Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In Vitro by Flavonoids. Cancer Lett., 120 (2): 213-216.
Topoisomerase-I-Inhibitor IC50=11.9 ug/ml	
Topoisomerase-II-Inhibitor IC50=11.9 ug/ml	
Tyrosine-Kinase-Inhibitor	Economic & Medicinal Plant Research, 6: 170.
Vasodilator	

LEUCOXOL	Plant	--	--	*
LEUCOPHLEOXOL	Plant	--	--	*
LEUCOPHLEOL	Plant	--	--	*
HCN	Plant	--	--	*

Activities (9)

Antiasthmatic	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antidote Ihl (=Amyl Nitrite)	Martindale's 29th
Antitussive	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Bronchosedative	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Insecticide	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Pesticide	
Respirastimulant	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Rodenticide	Martindale's 29th
Vasomotor-Stimulant	

GLYCOSIDE	Plant	--	--	*
BETULINIC-ACID-3-O-MALTOSIDE	Plant	--	--	*
BETA-AMYRIN	Plant	--	--	*

Activities (9)

Analgesic

Antiinflammatory
Antinociceptive
Antiulcer
Gastroprotective
Hepatoprotective
Larvicide
Mosquitocide